



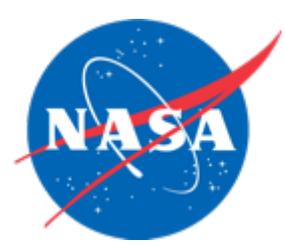
Arctic Boreal Vulnerability Experiment (ABOVE) 2023 ABOVE Airborne Flights

**18 July 2023 (DOY 199)
Noatak, Atqasuk, and Utqiagvik**

**Charles Miller, JPL, ABOVE Deputy Science Lead
Peter Griffith, GSFC, ABOVE Project Manager**

**For Hank Margolis, Mike Falkowski, Bruce Tagg, Jack Kaye
NASA HQ
2023**

Photo: P. Griffith



18 July 2023 (DOY 199) Noatak, Atqasuk, and Utqiagvik



Daily Status:

- **AVIRIS-3 / Dynamic Aviation B-200 (N53W)**
- REPORT DATE: 18 July 2023
- Current Status of Aircraft: **RED**
- Current Status of AVIRIS: **GREEN (but will require restarting)**
- Current Deployment Location: Utqiagvik (Barrow)
- Flight Crew: Kait King (Pilot), Robin Larsen (Pilot), Luis Rios (AVIRIS Operator), Mike Eastwood (AVIRIS Lead)
- Science Planning: R Pavlick, P Griffith
- Data Processing: J Chapman
- AVIRIS Lead: M Eastwood
- AVIRIS PI: R Green
- Science Lead: C Miller





18 July 2023 (DOY 199) Noatak, Atqasuk, and Utqiagvik



Daily Summary:

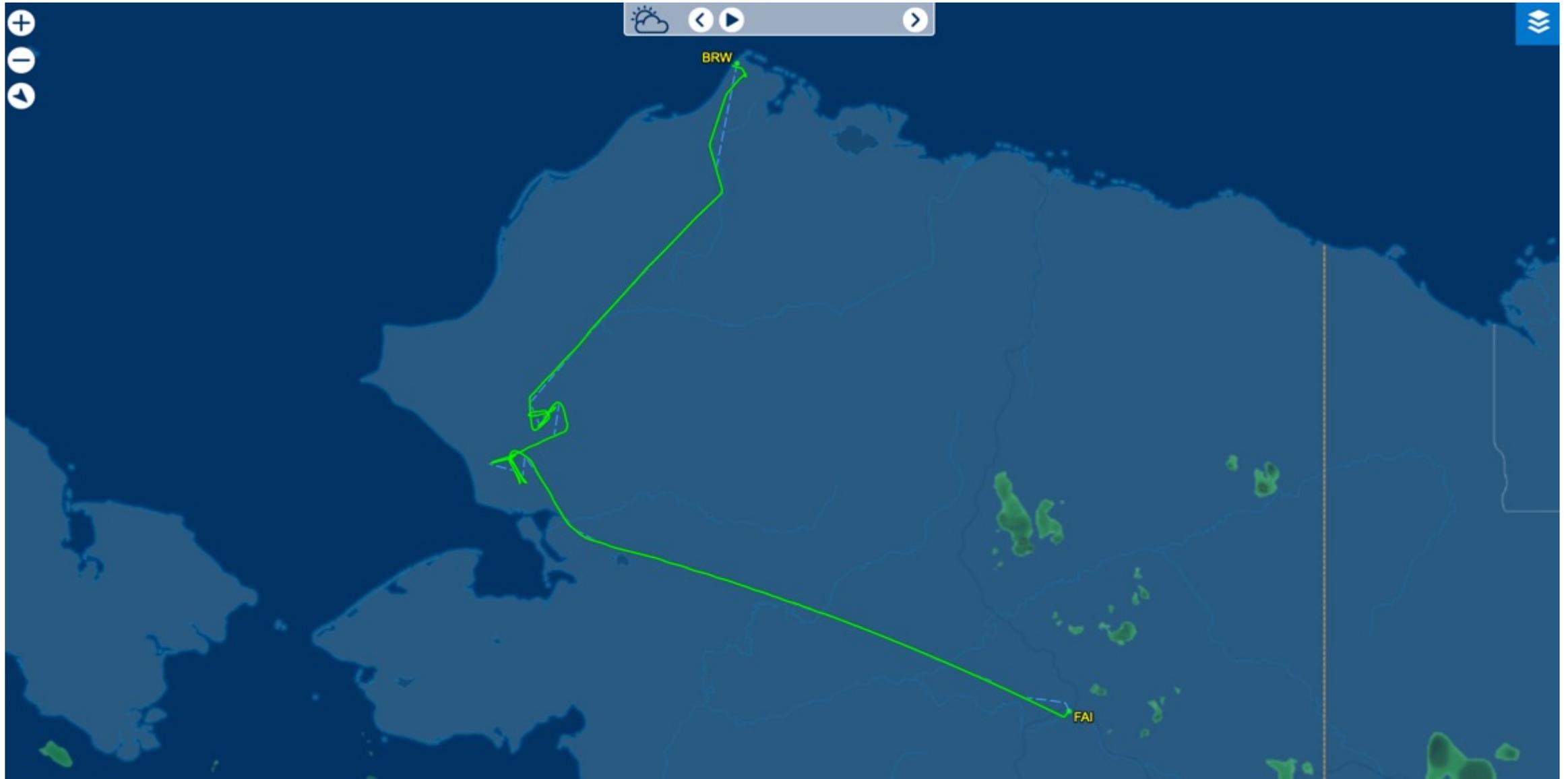
- Departed Fairbanks 1200 local
- Flew north to take advantage of the clear weather system that was moving across Noatak and Utqiagvik.
- Data were acquired over the Noatak and Atqasuk lines before landing in Utqiagvik at 1600.
- The flight crew overnighted in Utqiagvik. The forecast called for even better clear conditions around Utqiagvik on July 19. The plan was to finish there and return to Fairbanks in the evening. However...

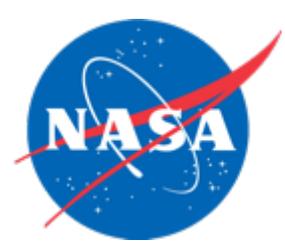
The morning brought beautiful clear weather in Utqiagvik, as forecast. When the flight crew arrived at the airport, they discovered fuel leaking from one wing tank. They explored and found few repair options in Utqiagvik. Consequently, Dynamic Aviation is mustering a mechanic to fix it. It will take a few days for him to get to Utqiagvik, and then some time to diagnose and fix the problem. At that point pilots can muster to fly the plane back to Fairbanks. JPL will track progress and work to have an AVIRIS instrument team in Fairbanks to receive the plane and re-start the instrument, which will need to go through a pump down+cool down process. A day after that data flights could resume. We expect to be down for at least a week, so the team in Alaska is returning to our various homes.



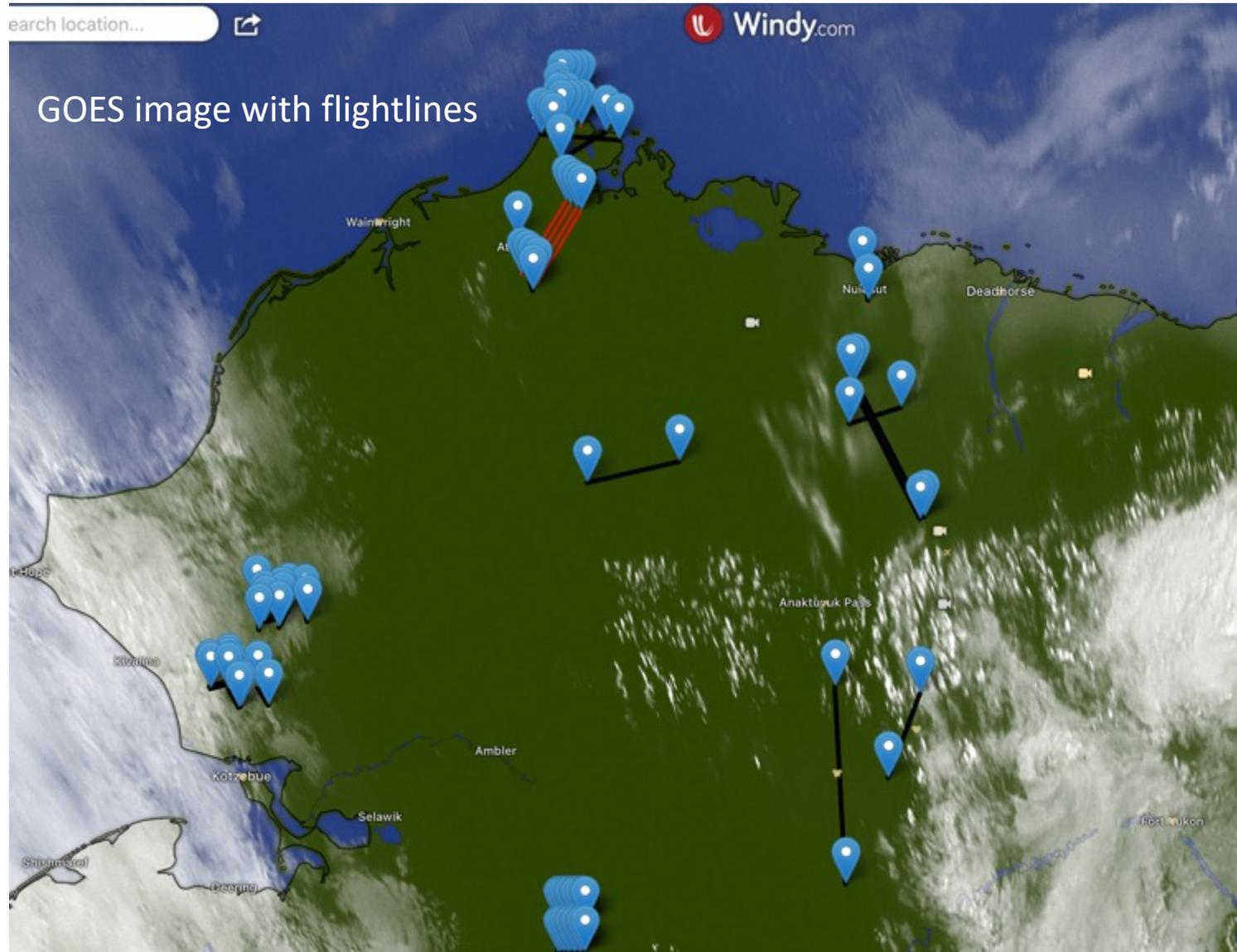


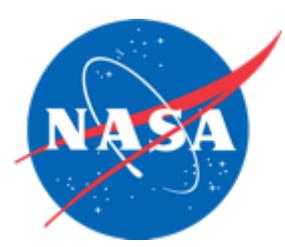
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Wainwright (PAWI)

UTC:21:45 Local:13:45

Wainwright (E) 21:44 02/18/23 (UTC) 13:45 02/18/23 (AKDT)

FAA advisory weather product

CLEARDAY VISUAL REFERENCE

Runway
41.0 SM

Site Elevation: 29' MSL

Show Camera Loop

East (70°) SouthEast (115°) South (185°) SouthWest (230°)

Red Dog (PADG)

UTC:20:43 Local:12:43

METAR PADG 181908Z 14010KT 10SM SKC 18/06 A3008

Red Dog (N) 20:43 02/18/23 (UTC) 12:43 02/18/23 (AKDT)

FAA advisory weather product

CLEARDAY VISUAL REFERENCE

1400' MSL
15.0 SM

3800' MSL
12.0 SM

3000' MSL
10.0 SM

Site Elevation: 962' MSL

Show Camera Loop

North (14°) NorthEast (57°) SouthEast (157°) SouthWest (228°)



Quicklooks coming soon